

AMENDMENT UNDER 37 C.F.R. § 1.114
U.S. Application Serial No. 10/628,557

Q76705

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A wireless communication apparatus ~~having comprising:~~
a wireless communication means comprising a first communication means and a second communication means for communicating via a wireless local area network (LAN) with wireless LAN communication equipment, for carrying out data communication with wireless communication equipment; ~~the wireless communication apparatus comprising:~~
a judgment means comprising a database of information on a plurality of base stations whose coverage areas include a location of the wireless LAN communication equipment to be communicable with the second communication means, and, when the base station information is received from the first communication means, the judgment means refers to the database and judges for making a judgment as to whether or not the second communication means wireless communication means is within a the coverage area of the wireless LAN communication equipment; and
an operation control means for automatically activating the wireless communication means only in the case where a result of the judgment by the judgment means is affirmative.

2. (currently amended): The wireless communication apparatus according to Claim 1, further comprising lighting means whose state of lighting changes in accordance with a

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communication state between the wireless communication means and the wireless LAN communication equipment.

3. (currently amended): The wireless communication apparatus according to Claim 1, the judgment means further comprising:

mobile phone communication means for carrying out data communication via a mobile phone communication network, wherein

the mobile phone communication means receives base station information representing a base station of the mobile phone communication network that carries out the data communication with the mobile phone communication means and the judgment means judges whether or not the wireless communication means is within the coverage area of the wireless LAN communication equipment by judging whether or not the base station represented by the base station information has a coverage area including the coverage area of the wireless LAN communication equipment.

4. (currently amended): The wireless communication apparatus according to Claim 1, the judgment means further comprising:

mobile phone communication means for carrying out data communication via a mobile phone communication network, wherein

the mobile phone communication means receives base station information representing a base station of the mobile phone communication network that carries out the data communication with the mobile phone communication means, and the judgment means judges

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whether or not the wireless communication means is within the coverage area of the wireless LAN communication equipment by judging whether or not the base station represented by the base station information has a coverage area including the coverage area of the wireless communication equipment of a specific characteristic.

5. (currently amended): The wireless communication apparatus according to Claim 1, the judgment means further comprising:

GPS reception means for receiving GPS information from GPS satellites, wherein

the judgment means judges whether or not the wireless communication means is within the coverage area of the wireless LAN communication equipment, based on the GPS information.

6. (currently amended): The wireless communication apparatus according to Claim 1, the judgment means further comprising:

GPS reception means for receiving GPS information from GPS satellites, wherein

the judgment means judges whether or not the wireless communication means is within the coverage area of the wireless LAN communication equipment of a specific characteristic, based on the GPS information.

7. (currently amended): An imaging apparatus comprising:

the wireless communication apparatus according to Claim 1;

image capturing means for obtaining image data;

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authentication information storage means for storing authentication information that is necessary for the data communication with the wireless LAN communication equipment via a wireless network;

image storage means for storing the image data obtained by the image capturing means;
and

control means for causing the judgment means to judge whether or not the wireless communication means is within the coverage area of the wireless LAN communication equipment in the case where the image data are stored in the image storage means, and for controlling the wireless communication means so as to send the authentication information stored in the authentication information storage means to the wireless LAN communication equipment by carrying out the data communication with the wireless communication equipment when the operation control means activates the wireless communication means, and so as to send the image data in the image storage means to the wireless LAN communication equipment after the wireless LAN communication equipment authenticates the imaging apparatus according to the authentication information.

8. (currently amended): The imaging apparatus according to Claim 7, wherein the control is also means for prohibiting roaming in the case where the wireless communication means has been moved to a coverage area of other wireless LAN communication equipment that is not authenticated by the authentication information but enables roaming with the wireless LAN communication equipment that is authenticated by the authentication information, during the data communication with the wireless LAN communication equipment that is authenticated.

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9. (previously presented): The imaging apparatus according to Claim 7, wherein the operation control means inactivates the wireless communication means after the image data that were stored in the image storage means have been sent.

10. (currently amended): An imaging apparatus comprising;

image capturing means for obtaining image data;

wireless communication means comprising a first communication means and a second communication means for communicating via a wireless local area network (LAN) with wireless LAN communication equipment, for carrying out data communication with the wireless LAN communication equipment via a the wireless network LAN;

authentication information storage means for storing authentication information that is necessary for the data communication with the wireless LAN communication equipment via the wireless network LAN;

image storage means for storing the image data obtained by the imaging means;

instruction means for receiving a transfer instruction regarding the image data stored in the image storage means; and

control means for automatically controlling the wireless communication means so as to send the authentication information stored in the authentication information storage means to the wireless LAN communication equipment by carrying out the data communication with the wireless LAN communication equipment in the case where the transfer instruction is received by the instruction means in a state where the image data are stored in the image storage means, and

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so as to send the image data stored in the image storage means to the wireless LAN communication equipment after the wireless LAN communication equipment authenticates the imaging apparatus according to the authentication information.

11. (currently amended): The imaging apparatus according to Claim 10 further comprising:

search means for carrying out a search for pieces of the wireless LAN communication equipment that are communicable with the wireless communication means, in response to an external instruction input;

display means for displaying a list of the pieces of the wireless LAN communication equipment as a result of the search carried out by the search means; and

selection means for receiving selection of a desired one of the pieces of the wireless LAN communication equipment from the result of the search, wherein

the control means controls the wireless communication means so as to send the authentication information stored in the authentication information storage means to the selected piece of the wireless LAN communication equipment by carrying out the data communication with the selected piece of the wireless LAN communication equipment in the case where the desired piece of the wireless LAN communication equipment has been selected from the search result and the transfer instruction is received by the instruction means in a state where the image data are stored in the image storage means, and so as to send the image data stored in the image storage means to the selected piece of the wireless LAN communication equipment after the

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selected piece of the wireless LAN communication equipment authenticates the imaging apparatus according to the authentication information.

12. (currently amended): The imaging apparatus according to Claim 11, wherein the search means searches for pieces of wireless LAN communication equipment including wireless LAN communication equipment that enables roaming with the wireless LAN communication equipment authenticated by the authentication information, in addition the wireless LAN communication equipment authenticated by the authentication information, and wherein

the display means displays the types of a plurality of pieces of wireless LAN communication equipment in the case where the wireless communication means is communicable with the plurality of pieces of wireless LAN communication equipment including the wireless LAN communication equipment authenticated by the authentication information and/or the pieces of wireless LAN communication equipment searched for by the search means.

13. (currently amended): The imaging apparatus according to Claim 12, wherein the display means displays a communication charge for the pieces of wireless LAN communication equipment searched for by the search means.

14. (currently amended): The imaging apparatus according to Claim 11, the search means further comprising mobile phone communication means for carrying out data communication via a mobile phone communication network, wherein

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the mobile phone communication means receives base station information representing a base station of the mobile phone communication network via which the data communication with the mobile phone communication means is carried out, and the search means searches for the pieces of the wireless LAN communication equipment that are communicable with the wireless communication means, based on the base station information.

15. (currently amended): The imaging apparatus according to Claim 11, the search means further comprising GPS reception means for receiving GPS information from GPS satellites, wherein

the search mean searches for the pieces of the wireless LAN communication equipment that are communicable with the wireless communication means, based on the GPS information.

16. (previously presented): A method for data communication between a wireless communication apparatus and a wireless communication equipment, comprising:

selecting image data sets to be transferred from the wireless communication apparatus to the wireless communication equipment;

searching for a communicable base station within a wireless communication network;

receiving base station information regarding communicable base stations located in the wireless communication network;

judging whether or not the wireless communication apparatus is within a coverage area of the wireless communication equipment; and

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automatically establishing a connection between the wireless communication apparatus and the wireless communication equipment when the wireless communication apparatus is judged to be within the coverage of the wireless communication equipment.

17. (previously presented): The method of claim 16, further comprising:
repeating searching for a communicable base station when the wireless communication apparatus is judged to not be within the coverage of the wireless communication equipment.

18. (previously presented): The method of claim 16, further comprising:
sending the selected data to the wireless communication apparatus.

19. (previously presented): The method of claim 16, wherein the searching for a communicable base station within a wireless communication network is performed by activating a GPS searching means; and

the receiving base station information regarding communicable base stations located in the wireless communication network comprises receiving GPS information of the base stations.

20. (previously presented): The method of claim 16, wherein the receiving base station information regarding communicable base stations located in the wireless communication network comprises receiving base station information from multiple base stations, and

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the judging whether or not the wireless communication apparatus is within a coverage area of the wireless communication equipment makes the judgment by using the base station information that has the strongest field intensity.

21. (previously presented): The method of claim 16, wherein the receiving base station information regarding communicable base stations located in the wireless communication network comprises company name information.

22. (previously presented): The method of claim 19, the receiving base station information regarding communicable base stations located in the wireless communication network further comprises company name information.

23. (canceled).

24. (currently amended): The wireless communication apparatus according to claim 1, wherein the wireless LAN communication equipment is connected to an image server, which stores the data communicated to the wireless LAN communication equipment for image processing.

25. (previously presented): The wireless communication apparatus according to claim 16, wherein the wireless communication equipment is connected to an image server, which stores the data communicated to the wireless communication equipment for image processing.